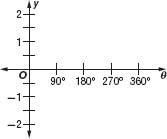
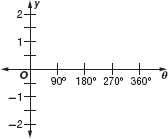
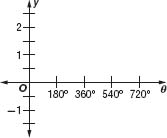
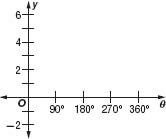
NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD \_\_\_\_\_\_\_

**Translations of Trigonometric Graphs**

**State the amplitude, period, phase shift, and vertical shift of each function. Then graph the function.**

1. *y* = sin (*θ* + 90°)  
     
     
   
2. *y* = cos (*θ* − 45°)  
     
     
   
3. *y* = cos *θ* + 1  
     
     
     
   
4. *y* = 2 cos [3(*θ* + 45°)] + 2  
     
     
     
   
5. *y* = 3 sin [2(*θ* − 90°)] + 2  
     
     
     
   